

To: File 
From: Robert O. Voegtlen, Closure Engineering

Title: Tank 12 Grout Cracks under Riser 1

Background:

As required by the Tank 12 Video Inspection Plan (Ref. SRR-LWE-2014-00162), prior to initiation of grouting of the previously placed grout an inspection is performed. The intent of this inspection is to look for grout anomalies and to verify no voids are visible (requirement from Regulatory Management and Administration "RM&A").

On Monday, February 22, 2016, a video inspection identified small surface cracks under the Tank 12 Riser 1. The cracks were isolated and limited to this location only. Upon discover of the cracks Regulatory Management and Administration was notified.

Discussion:

A subsequent meeting was held that morning with the following participants:

John Occhipinti, Waste Removal and Tank Closure Manager
Andy Tisler, Project Execution and Planning Manager
Steve Thomas, Project Execution and Planning Manager
Mark Layton, Waste Disposal Authority
Steve Simner, Waste Disposal Authority
Bruce Martin, Regulatory Management and Administration
Bob Voegtlen, Closure Engineering

After a thorough review of the video of the cracks, several items were noted. First, the location of the cracks was is limited to Riser 1 only. The morning inspection did not identify any other grout anomalies. Second, based on grouting of Tanks 18, 19, 5, 6, and 16, this phenomenon in the primary tank was extremely rare. Third, the cracks appeared to predominately emanate in a circle from under the riser in the vicinity where pigs enter the tank.

Since these cracks are limited to this one location and there has only been this one occurrence, these cracks should have minimal impact on performance assessment hydraulic modeling. It was agreed that grouting may proceed, and subsequent grout inspections will continue to monitor for additional cracking.